

897-86

IL-0221-174

**TESTING SERVICE CORPORATION**

457 East Gundersen Drive, Carol Stream, Illinois 60188

January 20, 1984

FOREST PRESERVE DISTRICT
OF DUPAGE COUNTY
P. O. Box 2330
Glen Ellyn, Illinois 60137

Attention: Mr. Scott Gerrick,
Environmental Testing Coordinator

Consultation Services
Foundation and site exploration
Testing of soils, concrete
and bituminous materials
Groundwater monitoring and
hydrogeologic studies

Telephone 312 653-3920

00004

No surface water contamination

Re: L-20,183
BLACKWELL FOREST PRESERVE
DuPage County, Illinois

Dear Scott:

During December 13, 14, 15 and 16, 1983, purging and sampling work was performed for monitoring wells, gas vents and lakes for the above referenced site. Other work included making measurements of water levels and well depths, taking water temperatures and checking for the presence of methane gas.

Details and procedures for the field work are summarized below:

1. Purging was performed for the 29 monitoring wells but not for the 4 gas vents. Purging was accomplished by either a submersible pump powered by a portable generator or by bailing. Bailing was performed for wells containing small volumes of water. A minimum of 1 volume of water was evacuated from the well casings. The purging equipment was rinsed with clean water prior to each use. Purging work was performed during the first two days of field work.
2. Water samples were obtained from the monitoring wells with the individual suspended bailers. The samples were taken from the second bail of water. Two sample containers (a vial for priority pollutant volatiles and a 500 ml. plastic container for selected inorganic parameters) were obtained for each monitoring well and gas vent.

EPA Region 5 Records Ctr.



248009

Reference 1
Site Name DuPage County Landfill/Blackwell Forest Preserve
Site ID ILD980606305

Dr. Lawrence A. DuBose
President

Charles C. Luther
Executive Vice-President

Lyle E. Thompson
Vice-President

Noble D. Moran
Vice-President

Bruce Poyner
Engineering Geologist

Silver Lake, the swim lake and the supply lake were sampled at a total of six locations. One vial sample was taken for each location with a 500 ml. plastic container taken at two of the six locations. The sampling for the monitoring wells and the lakes was accomplished in one day (3rd day of field work). The liquid samples obtained from the gas vents were obtained separately on the 4th day of field work.

3. The samples were coded and a Chain of Custody Record was prepared. The samples were preserved by refrigeration and delivered on the day they were obtained to Aqualab, Inc. for testing. The samples requiring filtering were filtered by Aqualab, Inc. The Chain of Custody Record given to Aqualab, Inc. did not reveal the identity of the samples.
4. Several "splits" and a field blank were taken and submitted with the samples for quality assurance purposes.
5. Other field work included the following:
 - a. Water level measurements were made using a battery operated water level detector for all monitoring wells both prior to purging and prior to sampling. Liquid levels were also measured for the vents.
 - b. Measurements were also made to the bottom of the wells and vents.
 - c. Temperatures of the samples collected were also recorded.
 - d. Checking for the presence of methane gas for the monitoring wells was made with a gas detector supplied by the Forest Preserve District.

The results of our field work are summarized in the enclosed table.

FOREST PRESERVE DISTRICT
OF DUPAGE COUNTY

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JANUARY 20, 1984
L-20,183

During field purging work it was noted that the water evacuated for several of the monitoring wells at the base of the hill on the southwest side had a black or darkish color and a slight odor was detected. The clarity of the water improved notably during purging.

The laboratory test results obtained for the samples by Aqualab, Inc. are shown on the enclosed Analytical Reports. The identity of the sample numbers can be determined by the enclosed Chain of Custody Record.

It is a pleasure to assist you with this project. Please call if there are any questions.


Respectfully submitted,

TESTING SERVICE CORPORATION

Prepared by:



Bruce Poynor,
Engineering Geologist


Lawrence A. DuBose, President

LAD:BP:ceg

Enclosures: Summary Sheets
Chain of Custody Report
Aqualab, Inc. Analytical Reports

LOCATION	DATE-1983		DEPTHS* & ELEVATIONS			WATER TEMP °F	METHANE GAS SIGNAL
			TO BOT. OF CASING	TO WATER PRIOR TO PURGING	TO WATER PRIOR TO SAMPLING		
G100	12-13 B	12-15	18'1/2"	13.68 707.80	13.45 708.03	48	ND
G101	12-13 B	12-15	13' 2-1/2"	5.20 708.76	4.95 709.01	48	ND
G102	12-13 B	12-15	26' 10-1/2"	18.01 709.56	17.91 709.66	48	ND
G103S	12-13 P	12-15	40'0"	8.51 709.29	8.40 709.40	50	ND
G103D	12-13 P	12-15	64' 4-1/2"	20.22 697.78	19.98 698.02	50	ND
G104	12-13 B	12-15	22' 2-1/2"	20.01 711.22	19.86 711.37	49	SLIGHT
G105	12-13 B	12-15	24'3"	20.27 704.01	20.12 704.16	50	ALARM
G106	12-13 B	12-15	14'7"	12.97 703.25	12.58 703.64	50	ALARM
G107S	12-13 P	12-15	40' 8-1/2"	14.90 693.19	14.78 693.31	48	ND
G107D	12-13 P	12-15	49'0"	15.81 691.81	15.69 691.93	48	ND
G108	12-14 P	12-15	14'10"	7.73 692.08	7.64 692.17	51	ND
G109	12-13 P	12-15	21'11"	13.93 692.10	13.80 692.23	49	ND
G110	12-13 B	12-15	17'7"	15.15 692.43	15.00 692.58	50	ALARM
G111	12-13 P	12-15	23'4"	16.28 692.82	16.17 692.93	50	ALARM
G112	12-13 P	12-15	21' 3-1/2"	15.30 692.88	15.18 693.00	50	ND
G113	12-13 P	12-15	21'8"	15.13 693.01	14.99 693.15	50	ALARM
G114	12-13 P	12-15	30'7"	16.43 693.17	16.30 693.30	50	MEDIUM
G115S	12-14 P	12-15	21' 6-1/2"	15.24 693.36	15.07 693.53	50	ND
G115D	12-14 P	12-15	50'5"	15.04 691.71	14.96 691.79	48	ND
G116	12-14 P	12-15	47'3"	16.04 691.69	15.93 691.80	51	ND
G117	12-14 P	12-15	30'1"	14.55 692.58	14.47 692.66	53	ND
G118S	12-13 B	12-15	22' 8-3/4"	17.10 693.28	16.89 693.49	49	NOT CHECKED
G118D	12-13 P	12-15	56'11"	18.73 691.00	18.60 691.13	45	NOT CHECKED
G119	12-13 B	12-15	20'1/2"	14.35 706.15	14.24 706.26	52	NOT CHECKED

LOCATION	DATE-1983		DEPTHS* & ELEVATIONS			WATER TEMP F	METHANE GAS SIGNAL
	PURGED	SAMPLED	TO BOT. OF CASING	TO WATER PRIOR TO PURGING	TO WATER PRIOR TO SAMPLING		
120S	12-13 P	12-15	60' 4-1/2"	33.04 697.89	32.86 698.07	45	ND
G120D	12-13 P	12-15	84'2"	37.74 693.10	37.55 693.29	47	ND
G121	12-14 P	12-15	21' 1-1/2"	11.48 692.33	11.40 692.41	52	ND
G122	12-14 P	12-15	25'8"	14.47 692.14	14.30 692.31	53	ND
G123	12-14 P	12-15	22'2"	14.70 693.21	14.57 693.34	54	ND
SV5		12-16	30'6"		21.20 709.27		
DV5		12-16	29'6"		21.65 701.78	42	
SV10		12-16	65'8"		62.19 693.03	42	
LARGE 8" VENT AT TOP OF MT. HOY		12-16				86	
DV1	SEE NOTES BELOW						

* - Depths referenced to top of steel protective pipe with hinged lid up. Depths to water are in feet.

P - Indicates well purged with pump

B - Indicates well purged with bailer

ND - Not Detected

DV1 - We were unable to obtain a liquid sample at this location due to a restriction in the casing and we were also unsuccessful in obtaining a reliable liquid level measurement. The nearby large 8" diameter vent was sampled as a substitute.

TESTING SERVICE CORPORATION
457 EAST GUNDERSEN DRIVE
CAROL STREAM, ILLINOIS 60188

CHAIN OF CUSTODY RECORD

CLIENT: FOREST PRESERVE DISTRICT of DU PAGE COUNTY		PROJ: BLACKWELL		SAMPLER(S): Bailer			
SPL. NO.	SPL. LOCATION	DATE - TIME 1983	SPL. TYPE			NO. OF* BTLS.	NOTES
			WATER COND.	grab			
90	G 118 S	Dec. 15 8:30		x		2	
91	G 118 D	Dec. 15 8:40		x		2	
92	G 118 S QA split	Dec. 15 -		x		2	
93	G 119	Dec. 15 8:55		x		2	
94	G 120 S	Dec. 15 9:10		x		2	
95	G 120 D	Dec. 15 9:20		x		2	
96	G 100	Dec. 15 9:30		x		2	
97	G 101	Dec. 15 9:45		x		2	
98	G 102	Dec. 15 10:05		x		2	
99	G 103 S	Dec. 15 10:15		x		2	
100	G 103 D	Dec. 15 10:20		x		2	
101	G 104	Dec. 15 10:30		x		2	
102	G 105	Dec. 15 10:45		x		2	
RELINQUISHED BY		RECEIVED BY				DATE - TIME	
* Vial + 500 ml.							
dispatched by:		via:	date:	received by:		date:	

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CLIENT: FOREST PRESERVE DISTRICT of DU PAGE COUNTY		PROJ: BLACKWELL		SAMPLER(S): Bailer			
SPL. NO.	SPL. LOCATION	DATE - TIME 1983	SPL. TYPE		NO. OF* BTLS.	NOTES	
			WATER Comp.	grab			
103	G 106	Dec. 15 11:00		x	2		
104	G 107 S	Dec. 15 11:15		x	2		
105	G 107 D	Dec. 15 11:20		x	2		
106	G 109	Dec. 15 11:30		x	2		
107	G 110	Dec. 15 11:40		x	2		
108	G 111	Dec. 15 11:50		x	2		
109	G 112	Dec. 15 12:00		x	2		
110	G 113	Dec. 15 12:10		x	2		
111	G 112 QA split	Dec. 15		x	2		
112	G 114	Dec. 15 12:20		x	2		
113	G 123	Dec. 15 12:45		x	2		
114	G 115 S	Dec. 15 1:00		x	2		
115	G 115 D	Dec. 15 1:15		x	2		
RELINQUISHED BY		RECEIVED BY			DATE - TIME		
* Vial + 500 ml.							
Initiated by:		via:	date:	received by:	date:		

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CLIENT: FOREST PRESERVE DISTRICT of DU PAGE COUNTY		PROJ: BLACKWELL		SAMPLER(S): Bailer			
SPL. NO.	SPL. LOCATION	DATE - TIME 1983	SPL. TYPE		NO. OF* BTLS.	NOTES	
			WATER Comp.	Grab			
129	SV 5	Dec. 16 1:15		x	2		
130	Lg gas vent at top of hill	Dec. 16 1:45		x	2		
131	DV 5	Dec. 16 2:15		x	2		
132	SV 10	Dec. 16 2:30		x	2		
RELINQUISHED BY		RECEIVED BY			DATE - TIME		
★ Vial + 500 ml.							
dispatched by:		via:	date:	received by:	date:		